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Z.M. Liu and M.A. Vannice, Characterization and chemical behavior of submonolayer coverages of titania on a Pt foil 350 (1996) 45

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J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, The adsorption of CO on Ir(111) investigated with FT-IRAS 350 (1996) 32

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Gold

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M.D. Johnson, K.T. Leung, A. Birch, B.G. Orr and J. Tersoff, Adatom concentration on GaAs(001) during MBE annealing 350 (1996) 254

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P. Hermann, D. Simon and B. Bigot, Pd deposits on Ni(111): a theoretical study 350 (1996) 301

C. Bandis and B.B. Pate, Photoelectric emission from the negative electron affinity (100) diamond surface–exciton effects 350 (1996) 315

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S. Tanaka, R.S. Kern, R.F. Davis, J.F. Wendelken and J. Xu, Vicinal and on-axis surfaces of 6H-SiC(0001) thin films observed by scanning tunneling microscopy 350 (1996) 247

B. Salanon, Curvature forces at crystal surfaces 350 (1996) 322

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I. Vilfan, Step patterns on vicinal reconstructed surfaces 350 (1996) 329

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Y. Golan, E. Ter-Ovanesyan, Y. Manassen, L. Margulis, G. Hodes, I. Rubinstein, E.G. Bithell and J.L. Hutchison, Electrodeposited quantum dots. IV. Epitaxial short-range order in amorphous semiconductor nanostructures 350 (1996) 277

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V. Jiménez, A. Fernández, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. I. SnO deposited on SiO_2 350 (1996) 123

Solid–liquid interfaces

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A.G. Borisov, G.E. Makhmetov, D. Teillet-Billy and J.P. Gauyacq, Atoms interacting with a metal surface with adsorbates: local and non-local effects on the charge transfer 350 (1996) L205

J. Goniakowski and M.J. Gillan, The adsorption of H_2O on TiO_2 and SnO_2(110) studied by first-principles calculations 350 (1996) 145

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Clusters

E.H. Voogt, A.J.M. Mens, O.L.J. Gijzeman and J.W. Geus, XPS analysis of palladium oxide layers and particles 350 (1996) 21

C. Goyhenex, M. Meunier and C.R. Henry, Limitation of Auger electron spectroscopy in the determination of the metal-on-oxide growth mode: Pd on MgO(100) 350 (1996) 103

A. Manivannan, A. Morneau, D.J. Díaz and C.R. Cabrera, STM analysis of triosmium carbonyl cluster adsorption at HOPG 350 (1996) 239

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V. Shutthanandan, A.A. Saleh, N.R. Shivaparan and R.J. Smith, Growth of ultrathin Pd films on Al(001) surfaces 350 (1996) 11

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A. Nishiyama, G. ter Horst, P.M. Zagwijn, G.N. van den Hoven, J.W.M. Frenken, F. Garten, A.R. Schlatmann and J. Vrijmoeth, Growth mode and interface structure of Ag on the HF-treated Si(111):H surface 350 (1996) 229

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V. Jiménez, A. Fernández, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. I. SnO deposited on SiO_2 350 (1996) 123

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A. Nishiyama, G. ter Horst, P.M. Zagwijn, G.N. van den Hoven, J.W.M. Frenken, F. Garten, A.R. Schlatmann and J. Vrijmoeth, Growth mode and interface structure of Ag on the HF-treated Si(111):H surface 350 (1996) 229

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S.-J. Park, J.-R. Ro, J.S. Ha, S.-B. Kim, H.-H. Park, E.-H. Lee, J.-Y. Yi and J.Y. Lee, Surface morphology of InGaAs on GaAs(100) by chemical beam epitaxy using unprecracked monoethylarsine, triethylgallium and trimethylindium 350 (1996) 221